```
=> d his

     (FILE 'REGISTRY' ENTERED AT 12:36:26 ON 14 OCT 2004)
                DEL HIS Y
                ACT BLESSING3/A
               ---------
L1              STR
L2              SCR 2040
L3   (       736)SEA FILE=REGISTRY SSS FUL L1 AND L2
L4              STR
L5           249 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
               ---------
L6            55 S L5 AND PMS/CI
L7             9 S L5 AND POLYETHER/PCT
L8              STR L5
L9              STR L4
L10             STR L9
L11           23 SEARCH L10 SSS  SUB=L5 FUL
                SAVE L11 TEMP BLESSING4/A
L12           41 S L6 NOT (L7 OR L11)

     FILE 'CAPLUS' ENTERED AT 12:44:29 ON 14 OCT 2004
L13           16 S L7 OR L11
L14           30 S L12

     FILE 'REGISTRY' ENTERED AT 12:46:12 ON 14 OCT 2004

     FILE 'CAPLUS' ENTERED AT 12:47:39 ON 14 OCT 2004
L15            4 S L14 AND (63 OR 1)/SC,SX
```

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=> fil reg
FILE 'REGISTRY' ENTERED AT 12:49:28 ON 14 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   13 OCT 2004  HIGHEST RN 762228-78-4
DICTIONARY FILE UPDATES:  13 OCT 2004  HIGHEST RN 762228-78-4

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d que stat l5
L1                STR
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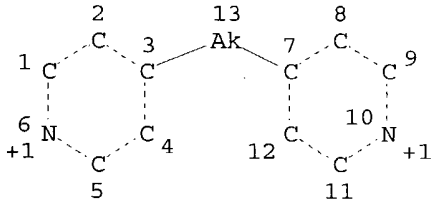


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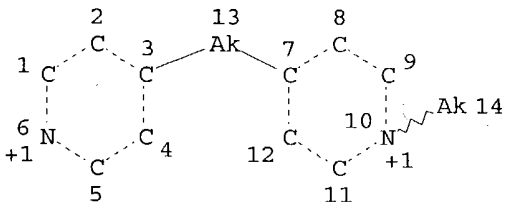
NODE ATTRIBUTES:
CHARGE  IS E+1    AT   6
CHARGE  IS E+1    AT  10
CONNECT IS E2  RC AT  13
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS  13

STEREO ATTRIBUTES: NONE
L2                SCR 2040
L3  (       736)SEA FILE=REGISTRY SSS FUL L1 AND L2
L4                STR
```



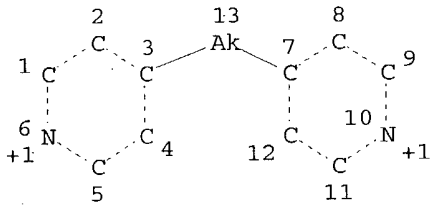
NODE ATTRIBUTES:
CHARGE IS E+1 AT 6
CHARGE IS E+1 AT 10
CONNECT IS E2 RC AT 13
DEFAULT MLEVEL IS ATOM
GGCAT IS SAT AT 13
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L5 249 SEA FILE=REGISTRY SUB=L3 SSS FUL L4

100.0% PROCESSED 736 ITERATIONS (1 INCOMPLETE) 249 ANSWERS
SEARCH TIME: 00.00.01

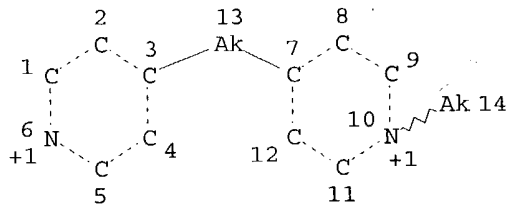
=> d que stat l7
L1 STR



NODE ATTRIBUTES:
CHARGE IS E+1 AT 6
CHARGE IS E+1 AT 10
CONNECT IS E2 RC AT 13
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
L2 SCR 2040
L3 (736)SEA FILE=REGISTRY SSS FUL L1 AND L2
L4 STR



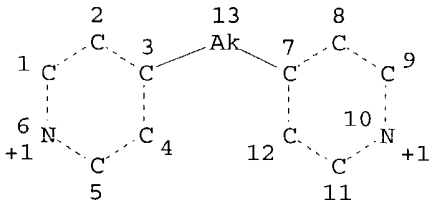
NODE ATTRIBUTES:
CHARGE IS E+1 AT 6
CHARGE IS E+1 AT 10
CONNECT IS E2 RC AT 13
DEFAULT MLEVEL IS ATOM

GGCAT IS SAT AT 13
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE
L5 249 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
L7 9 SEA FILE=REGISTRY ABB=ON PLU=ON L5 AND POLYETHER/PCT

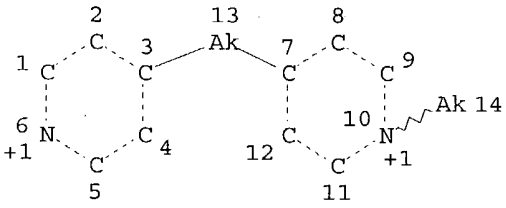
=> d que stat l11
L1 STR



NODE ATTRIBUTES:
CHARGE IS E+1 AT 6
CHARGE IS E+1 AT 10
CONNECT IS E2 RC AT 13
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 13

STEREO ATTRIBUTES: NONE
L2 SCR 2040
L3 (736) SEA FILE=REGISTRY SSS FUL L1 AND L2
L4 STR

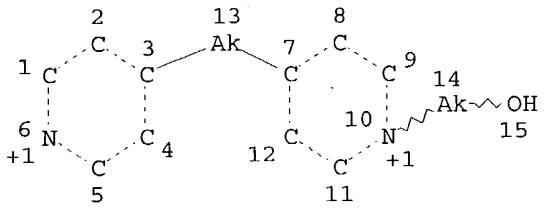


NODE ATTRIBUTES:
CHARGE IS E+1 AT 6
CHARGE IS E+1 AT 10
CONNECT IS E2 RC AT 13
DEFAULT MLEVEL IS ATOM
GGCAT IS SAT AT 13
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 14

STEREO ATTRIBUTES: NONE

L5 249 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
L10 STR



NODE ATTRIBUTES:
CHARGE IS E+1 AT 6
CHARGE IS E+1 AT 10
CONNECT IS E2 RC AT 13
DEFAULT MLEVEL IS ATOM
GGCAT IS SAT AT 13
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 15

STEREO ATTRIBUTES: NONE
L11 23 SEA FILE=REGISTRY SUB=L5 SSS FUL L10

100.0% PROCESSED 249 ITERATIONS 23 ANSWERS
SEARCH TIME: 00.00.01

=> fil caplus
FILE 'CAPLUS' ENTERED AT 12:50:15 ON 14 OCT 2004
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 14 Oct 2004 VOL 141 ISS 16
FILE LAST UPDATED: 13 Oct 2004 (20041013/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

'OBI' IS DEFAULT SEARCH FIELD FOR 'CAPLUS' FILE

=> d que nos l13
L1 STR
L2 SCR 2040
L3 (736) SEA FILE=REGISTRY SSS FUL L1 AND L2

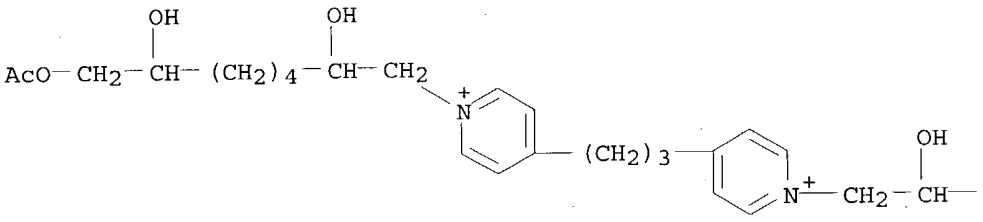
```
L4              STR
L5          249 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
L7            9 SEA FILE=REGISTRY ABB=ON  PLU=ON  L5 AND POLYETHER/PCT
L10             STR
L11          23 SEA FILE=REGISTRY SUB=L5 SSS FUL L10
L13          16 SEA FILE=CAPLUS ABB=ON  PLU=ON  L7 OR L11


=> d que nos l15
L1              STR
L2              SCR 2040
L3  (       736)SEA FILE=REGISTRY SSS FUL L1 AND L2
L4              STR
L5          249 SEA FILE=REGISTRY SUB=L3 SSS FUL L4
L6           55 SEA FILE=REGISTRY ABB=ON  PLU=ON  L5 AND PMS/CI
L7            9 SEA FILE=REGISTRY ABB=ON  PLU=ON  L5 AND POLYETHER/PCT
L10             STR
L11          23 SEA FILE=REGISTRY SUB=L5 SSS FUL L10
L12          41 SEA FILE=REGISTRY ABB=ON  PLU=ON  L6 NOT (L7 OR L11)
L14          30 SEA FILE=CAPLUS ABB=ON  PLU=ON  L12
L15           4 SEA FILE=CAPLUS ABB=ON  PLU=ON  L14 AND (63 OR 1)/SC,SX

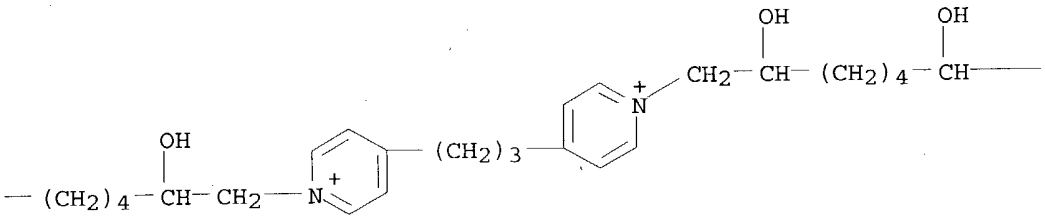

=> d .ca hitstr l13 1-6;d .ca hitstr l15 1-4

L13  ANSWER 1 OF 16  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:         2004:245248  CAPLUS
DOCUMENT NUMBER:          141:16493
TITLE:                    Separation of quaternary ammonium diastereomeric
                          oligomers by capillary electrophoresis
AUTHOR(S):                Zhang, Bin; Krull, Ira S.; Cohen, Aharon; Smisek,
                          David L.; Kloss, Alla; Wang, Bing; Bourque, Andre J.
CORPORATE SOURCE:         Department of Chemistry, Northeastern University,
                          Boston, MA, 02115, USA
SOURCE:                   Journal of Chromatography, A (2004), 1034(1-2),
                          213-220
                          CODEN: JCRAEY; ISSN: 0021-9673
PUBLISHER:                Elsevier Science B.V.
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
AB   The separation of novel diastereomeric trimers (3M) and pentamers (5M), derived
     from quaternary ammonium salts, was studied in conventional, uncoated and
     coated capillaries using capillary zone electrophoresis (CZE) with a
     variety of buffers and additives.  Resolution of 5M diastereomers was best
     achieved using gamma-cyclodextrin (gamma-CD) as a chiral selector, while
     no diastereomeric resolution was realized for the 3M material.
CC   80-4 (Organic Analytical Chemistry)
IT   693799-60-9 693799-62-1
     RL: ANT (Analyte); ANST (Analytical study)
        (diastereomers; separation of quaternary ammonium diastereomeric oligomers
        by capillary electrophoresis)
IT   693799-62-1
     RL: ANT (Analyte); ANST (Analytical study)
        (diastereomers; separation of quaternary ammonium diastereomeric oligomers
        by capillary electrophoresis)
RN   693799-62-1  CAPLUS
CN   Pyridinium, 1,1'-(2,7-dihydroxy-1,8-octanediyl)bis[4-[3-[1-[8-(acetyloxy)-
     2,7-dihydroxyoctyl]pyridinium-4-yl]propyl]- (9CI)  (CA INDEX NAME)
```

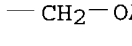
PAGE 1-A



PAGE 1-B



PAGE 1-C



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:45658 CAPLUS
DOCUMENT NUMBER: 138:238999
TITLE: Ordered Polyelectrolyte Multilayers. Rules Governing Layering in Organic Binary Multilayers
AUTHOR(S): Arys, Xavier; Fischer, Peter; Jonas, Alain M.; Koetse, Marc M.; Laschewsky, Andre; Legras, Roger; Wischerhoff, Erik
CORPORATE SOURCE: Unite de Physique et de Chimie des Hauts Polymeres and Unite de Chimie des Materiaux, Universite Catholique de Louvain, Louvain-la-Neuve, B-1348, Belg.
SOURCE: Journal of the American Chemical Society (2003), 125(7), 1859-1865
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The authors study the growth and internal structure of polyelectrolyte multilayers obtained by combining three polyanions with nine polycations of the ionene family, of systematically varied chemical architecture. Contrary to a generally held belief, ordered organic multilayers are by no way exceptional, provided one of the polyelectrolytes bears groups which induce structure in water, such as long hydrophobic segments or mesogenic groups. However, this condition is not sufficient, as order will or will

not emerge in the multilayer depending on the specific pairing of the polyelectrolytes. The results support the notion that layering in the multilayer results from some degree of prestructuring of a water-swollen layer adsorbed during each step of deposition. These findings pave the way to new possible uses of polyelectrolyte multilayers, for example, for applications requiring preferential alignment or strong confinement of specific functional groups.

CC 38-3 (Plastics Fabrication and Uses)
Section cross-reference(s): 36

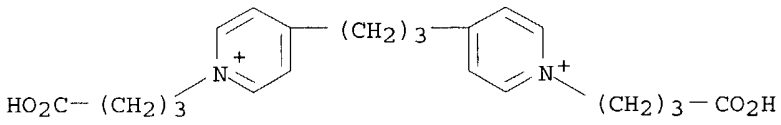
IT 9002-97-5, Sodium vinyl sulfonate homopolymer 25704-18-1, Sodium p-styrenesulfonate homopolymer 26182-60-5 178861-34-2 182972-08-3
195131-20-5 501444-15-1 501444-16-2 501444-17-3 501444-18-4
501444-20-8 501444-21-9 501444-22-0 501444-23-1
501444-24-2 501444-25-3 501444-26-4 501444-27-5 501444-28-6
501444-29-7 **501444-30-0 501444-31-1** 501444-32-2
501444-33-3 501444-34-4 501444-35-5 501444-36-6 501444-37-7
501444-38-8 501444-39-9 501444-40-2 501444-41-3 501444-42-4
501444-43-5 **501444-44-6** 501444-45-7 501444-46-8
501444-47-9 501444-48-0 501444-49-1 501444-50-4 501444-51-5
501444-52-6 501444-53-7 501444-54-8 501444-55-9 501444-56-0
501444-57-1 501444-58-2 501444-59-3 501444-60-6 501444-61-7
501444-62-8 501444-63-9 501444-64-0 501444-65-1 501444-66-2
RL: PRP (Properties)
(growth and internal structure of ordered polyelectrolyte multilayers obtained by combining polyanions with polycations of ionene family)

IT **501444-20-8 501444-21-9 501444-30-0**
501444-31-1 501444-44-6
RL: PRP (Properties)
(growth and internal structure of ordered polyelectrolyte multilayers obtained by combining polyanions with polycations of ionene family)

RN 501444-20-8 CAPLUS
CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(3-carboxypropyl)-, dibromide, polymer with 2,2'-(phenylimino)bis[ethanol] (9CI) (CA INDEX NAME)

CM 1

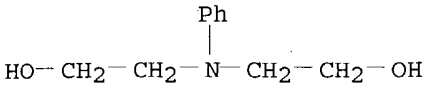
CRN 501444-19-5
CMF C21 H28 N2 O4 . 2 Br



● 2 Br^-

CM 2

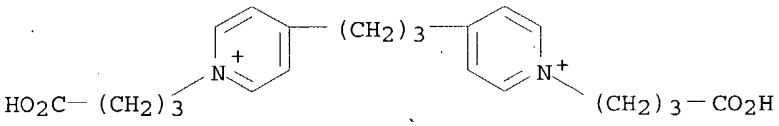
CRN 120-07-0
CMF C10 H15 N O2



RN 501444-21-9 CAPLUS
CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(3-carboxypropyl)-, dibromide, polymer with 2,2'-[[4-(3-pyridinylazo)phenyl]imino]bis[ethanol] (9CI) (CA INDEX NAME)

CM 1

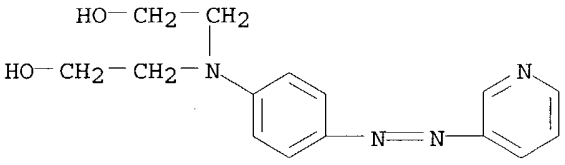
CRN 501444-19-5
CMF C21 H28 N2 O4 . 2 Br



●2 Br⁻

CM 2

CRN 54292-59-0
CMF C15 H18 N4 O2



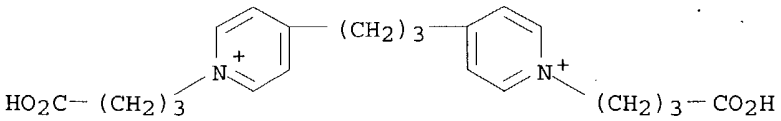
RN 501444-30-0 CAPLUS
CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(3-carboxypropyl)-, dibromide, polymer with 2,2'-(phenylimino)bis[ethanol], compd. with potassium ethenyl sulfate homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 501444-20-8
CMF (C21 H28 N2 O4 . C10 H15 N O2 . 2 Br)x
CCI PMS

CM 2

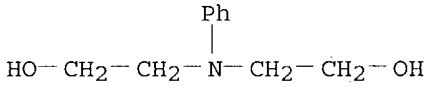
CRN 501444-19-5
CMF C21 H28 N2 O4 . 2 Br



● 2 Br^-

CM 3

CRN 120-07-0
CMF C10 H15 N O2

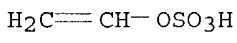


CM 4

CRN 26182-60-5
CMF (C2 H4 O4 S . K)x
CCI PMS

CM 5

CRN 44587-64-6
CMF C2 H4 O4 S . K



● K

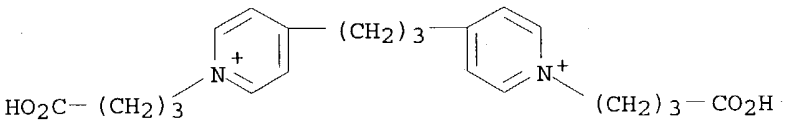
RN 501444-31-1 CAPLUS
CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(3-carboxypropyl)-, dibromide, polymer with 2,2'-[[4-(3-pyridinylazo)phenyl]imino]bis[ethanol], compd. with potassium ethenyl sulfate homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 501444-21-9
CMF (C21 H28 N2 O4 . C15 H18 N4 O2 . 2 Br)x
CCI PMS

CM 2

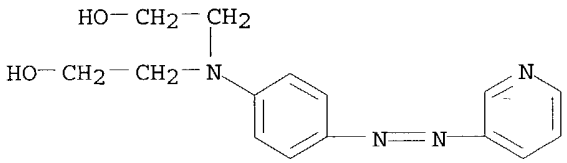
CRN 501444-19-5
CMF C21 H28 N2 O4 . 2 Br



● 2 Br^-

CM 3

CRN 54292-59-0
CMF C15 H18 N4 O2

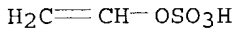


CM 4

CRN 26182-60-5
CMF (C2 H4 O4 S . K)x
CCI PMS

CM 5

CRN 44587-64-6
CMF C2 H4 O4 S . K



● K

RN 501444-44-6 CAPLUS
CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(3-carboxypropyl)-, dibromide, polymer with 2,2'-[[4-(3-pyridinylazo)phenyl]imino]bis[ethanol], compd. with sodium 4-ethenylbenzenesulfonate homopolymer (9CI) (CA INDEX NAME)

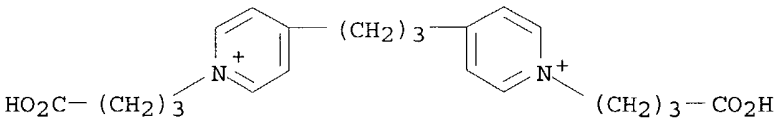
CM 1

CRN 501444-21-9
CMF (C21 H28 N2 O4 . C15 H18 N4 O2 . 2 Br)x
CCI PMS

CM 2

CRN 501444-19-5

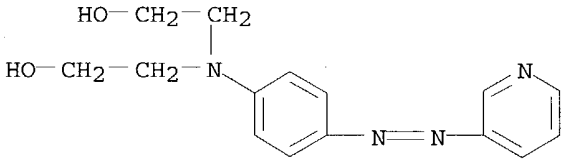
CMF C21 H28 N2 O4 . 2 Br



● 2 Br⁻

CM 3

CRN 54292-59-0
CMF C15 H18 N4 O2

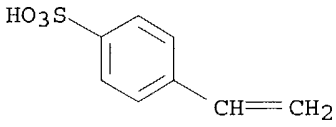


CM 4

CRN 25704-18-1
CMF (C8 H8 O3 S . Na)x
CCI PMS

CM 5

CRN 2695-37-6
CMF C8 H8 O3 S . Na



● Na

REFERENCE COUNT: 55 THERE ARE 55 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 3 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2001:664786 CAPLUS
DOCUMENT NUMBER: 136:20953
TITLE: Simple zwitterionic merocyanines as potential NLO

chromophores

AUTHOR(S): Kay, A. J.; Woolhouse, A. D.; Gainsford, G. J.; Haskell, T. G.; Wyss, C. P.; Giffin, S. M.; McKinnie, I. T.; Barnes, T. H.

CORPORATE SOURCE: Industrial Research Limited, Lower Hutt, N. Z.

SOURCE: Journal of Materials Chemistry (2001), 11(9), 2271-2281
CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 136:20953

AB A suite of zwitterionic pyridylidene-based merocyanines that contain no interconnecting π-bridge between the donor and acceptor rings has been synthesized and their second-order NLO properties evaluated largely by semi-empirical computational methods (MOPAC 97/AM1). Contrary to expectation, increasing the degree of inter-ring twist (θ), at least up to 55°, in these new pyridylideneazolone chromophores is found to have little or no effect on the figure of merit [μβ(0)]. An X-ray crystallog. appraisal of one of these chromophores, , reveals however that the twist angle (albeit in the solid state) is greater than that predicted by computation and that all other features are consistent with the highly zwitterionic nature of these systems. In spite of this, a combination of factors-insufficient acceptor strength, insufficient extent of conjugation and perhaps insufficient twist angle, in particular - clearly leads to the low values of the quadratic hyperpolarizabilities. The trade-off between targeting a more modest hyperpolarizability term from a min. of π-conjugating framework between donor and acceptor (and therefore synthetic expediency) and seeking a moderate-to-high dipole moment has therefore resulted in only low figures of merit for these systems. Calcns. performed on a suite of readily accessible, isoelectronic cyanines, in which the acceptor is a stabilized cyclopentadienide carbocycle rather than a heterocycle, have revealed the potential that these systems have as NLO chromophores. Representative polymer-tetherable derivs. of this system have been prepared as have the corresponding TDI-based polyurethanes.

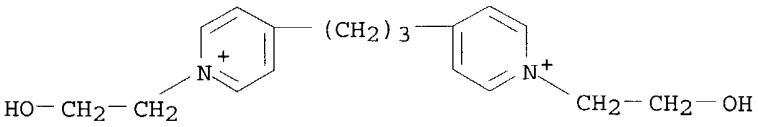
CC 41-11 (Dyes, Organic Pigments, Fluorescent Brighteners, and Photographic Sensitizers)
Section cross-reference(s): 22, 27, 35, 73, 75

IT 6631-89-6P 7153-08-4P, 3,5-Diiodo-4-hydroxypyridine 13993-58-3P, 4-Chloro-3,5-diiodopyridine 21346-21-4P 56226-25-6P 75914-61-3P 377743-26-5P 377743-27-6P 377743-28-7P, 3,5-Diiodo-4-(phenylthio)pyridine 377743-29-8P 377743-39-0P **377743-42-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of simple zwitterionic merocyanines as potential NLO chromophores)

IT **377743-42-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of simple zwitterionic merocyanines as potential NLO chromophores)

RN 377743-42-5 CAPLUS

CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(2-hydroxyethyl)-, diiodide (9CI) (CA INDEX NAME)



●2 I^-

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 4 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:328766 CAPLUS
DOCUMENT NUMBER: 131:82077
TITLE: Lanthanide coordination polymers with dicarboxylate-like ligands: crystal structures of polymeric lanthanum(III) and terbium(III) complexes with flexible double betaines
AUTHOR(S): Mao, Jiang-Gao; Zhang, Hong-Jie; Ni, Jia-Zuan; Wang, Shu-Bin; Mak, Thomas C. W.
CORPORATE SOURCE: State Key Laboratory of Structure Chemistry, Fujian Institute of Research on the Structure of Matter, The Chinese Academy of Sciences, Fuzhou, 350002, Peop. Rep. China
SOURCE: Polyhedron (1999), 18(10), 1519-1525
CODEN: PLYHDE; ISSN: 0277-5387
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English

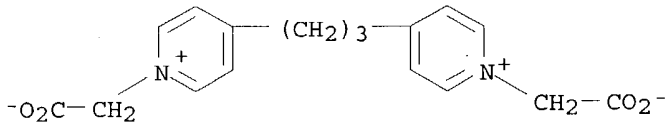
AB Four novel polymeric lanthanide(III) complexes of two new double betaine derivs. were synthesized and structurally determined In [{La2(L1)2(H2O)9}n]Cl6n·2nH2O (1) and [{Tb(L1)(H2O)4}n]Cl3n·nH2O (2) (L1 = 4,4'-trimethylenedipyridinio-N,N'-diacetate), the lanthanide(III) ions form a two-dimensional layer in which each pair of lanthanide(III) ions is bridged by two syn-anti μ-carboxylato-O,O' groups. Adjacent layers are cross-linked through H bonds among aqua ligands, lattice H2O mols. and chloride ions, to form a three-dimensional network. Isomorphous [{Ln(L2)(H2O)4}n]Cl3n·5 nH2O (Ln = La, 3; Ln = Tb, 4; L2 = 1,3 bis(pyridinio-4-carboxylato)propane) each contain a centrosym. paddle-wheel-like dimeric unit in which each pair of adjacent metal atoms is bridged by four syn-syn μ-carboxylato-O,O' groups that are oriented nearly perpendicular to each other about the metal-metal axis. Neighboring dimeric subunits are bridged by a pair of flexible L2 ligands into a polymeric chain. Adjacent chains are inter-linked by H bonds among aqua ligands, lattice H2O mols. and chloride ions into a three-dimensional network.

CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 75
IT **215432-52-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(in rare earth trimethylenedipyridinio-N,N'-diacetate coordination polymers)
IT **228705-04-2P 228705-05-3P** 228705-06-4P 228705-07-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, crystal structure and H bonding in)
IT **215432-52-3**

RL: RCT (Reactant); RACT (Reactant or reagent)
(in rare earth trimethylenedipyridinio-N,N'-diacetate coordination polymers)

RN 215432-52-3 CAPLUS

CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(carboxymethyl)-, bis(inner salt) (9CI) (CA INDEX NAME)



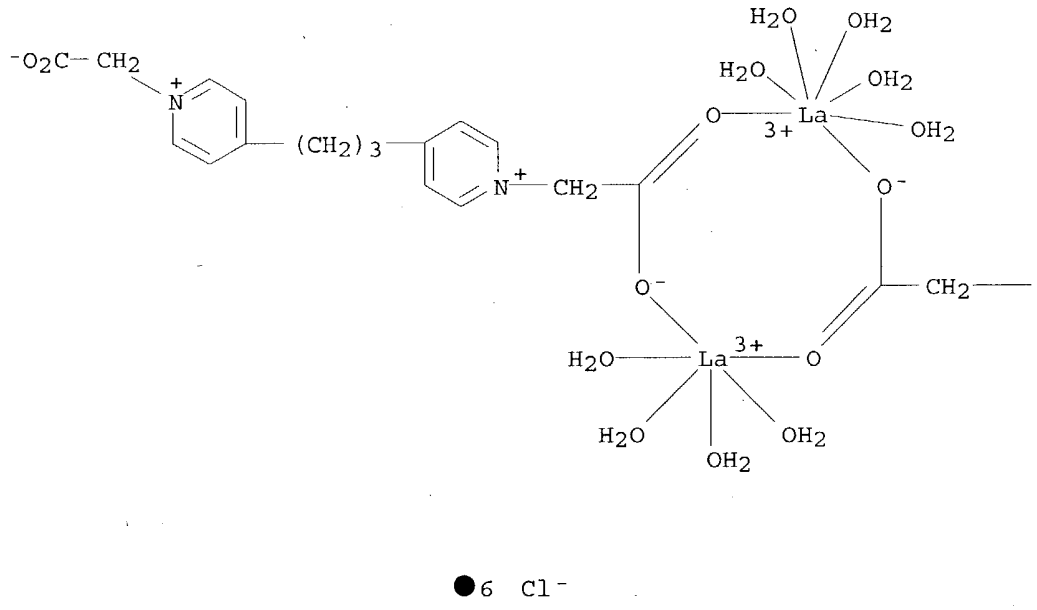
IT **228705-04-2P 228705-05-3P**

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, crystal structure and H bonding in)

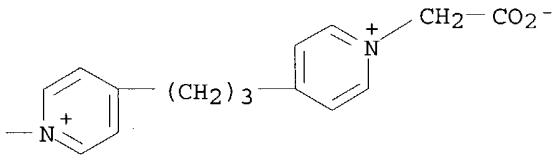
RN 228705-04-2 CAPLUS

CN Lanthanum(6+), nonaaquabis[μ-[1-[(carboxy-κO:κO')methyl]-4-[3-[1-(carboxymethyl)pyridinium-4-yl]propyl]pyridiniumato(2-)]]di-, hexachloride, dihydrate (9CI) (CA INDEX NAME)

PAGE 1-A

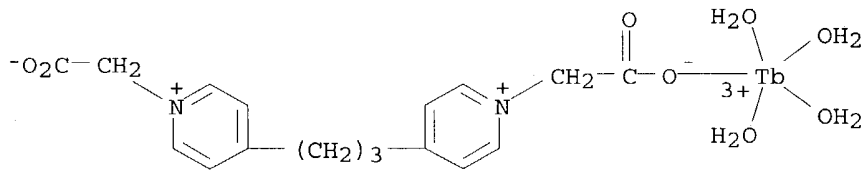


●6 Cl⁻



● 2 H_2O

RN 228705-05-3 CAPLUS
CN Terbium(3+), tetraaqua[1-[(carboxy-κO)methyl]-4-[3-[1-(carboxymethyl)pyridinium-4-yl]propyl]pyridiniumato(2-)]-, trichloride (9CI) (CA INDEX NAME)



● 3 Cl^-

REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 5 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:654326 CAPLUS
DOCUMENT NUMBER: 129:350175
TITLE: Syntheses and crystal structure of erbium(III) coordination polymers with two flexible double betaine ligands
AUTHOR(S): Mao, Jiang-Gao; Wu, Hai-Tao; Mak, Thomas C. W.; Zhang, Hong-Jie; Ni, Jia-Zuan
CORPORATE SOURCE: Fujian Inst. Res. Structure Matter, The Chinese Acad. Sci., Fuzhou, 35002, Peop. Rep. China
SOURCE: Jiegou Huaxue (1998), 17(5), 353-360
CODEN: JHUADF; ISSN: 0254-5861
PUBLISHER: "Jiegou Huaxue" Bianji Weiyuanhui
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two new polymeric Er(III) complexes of two flexible double betaine ligands were synthesized and characterized by x-ray anal. In {[Er(L1)(H2O)4]Cl3·H2O}n (1) (L1 = 4,4'-trimethylenedipyridinio-N,N'-diacetate), the Er(III) ions form a two-dimensional metal carboxylate layer in which each pair of Er(III) atoms is bridged by two syn-anti μ-carboxylato-O,O' groups. Adjacent layers are cross-linked through H

bonds among aqua ligands, lattice H2O mols. and chloride ions to form a three-dimensional network. 1 Is monoclinic in the space group C2 with a 27.408(4), b 9.645(3), c 9.423(2) Å, β 100.85(1)°, Z = 4, dc = 1.836 g/cm3, R = 0.048 for 2451 reflections with I>2σ(I). {[Er(L2)(H2O)4]Cl3·5H2O}n (2) (L2 = 1,3-bis(pyridinio-4-carboxylato)propane) comprises lanthanide carboxylate chains built from centrosym. dimeric units cross-linked by a pair of L2 ligands, discrete anions and lattice H2O mols. In the dimeric 2, each pair of metal ions is bridged by four syn-syn μ-carboxylato-O,O' groups oriented nearly perpendicular to each other about the metal-metal axis. The metal carboxylate chains of 2 are further cross-linked by H bonds to form a three-dimensional network. 2, Is monoclinic in the space group C2/m with a 16.564(3), b 15.839(3), c 11.792(4) Å, β 122.27(1)°, Z = 4, dc = 1.833 g/cm3, R = 0.043 for 2436 observed reflection with I>2σ(I).

CC 78-7 (Inorganic Chemicals and Reactions)
Section cross-reference(s): 27, 75

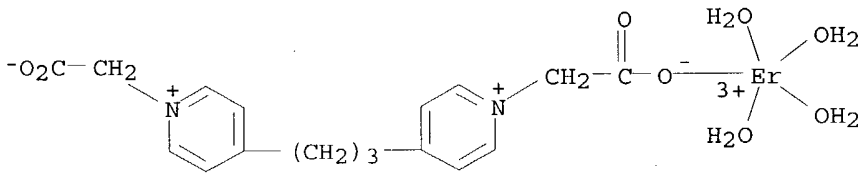
IT **215432-48-7P** 215432-50-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(polymeric; preparation and crystal structure)

IT **215432-52-3P** 215432-54-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and complexation with erbium)

IT **215432-48-7P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(polymeric; preparation and crystal structure)

RN 215432-48-7 CAPLUS

CN Erbium(3+), tetraaqua[1-[(carboxy-κO)methyl]-4-[3-[1-(carboxymethyl)pyridinium-4-yl]propyl]pyridiniumato(2-)]-, trichloride, monohydrate (9CI) (CA INDEX NAME)



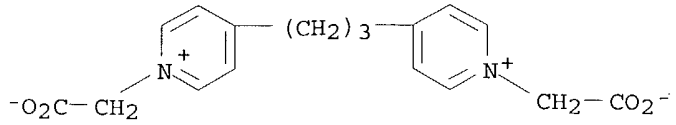
● 3 Cl⁻

● H2O

IT **215432-52-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and complexation with erbium)

RN 215432-52-3 CAPLUS

CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(carboxymethyl)-, bis(inner salt) (9CI) (CA INDEX NAME)

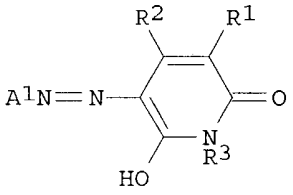


REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

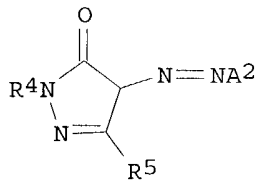
L13 ANSWER 6 OF 16 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:535066 CAPLUS
DOCUMENT NUMBER: 125:234370
TITLE: Electrophotographic developer composition
INVENTOR(S): Schwarz, William M.; Fuller, Timothy J.
PATENT ASSIGNEE(S): Xerox Corp., USA
SOURCE: U.S., 55 pp., Cont. of U.S. Ser. No. 166, 374, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5543259	A	19960806	US 1995-466541	19950606
PRIORITY APPLN. INFO.:			US 1993-166374	19931213

OTHER SOURCE(S): MARPAT 125:234370
GI



I



II

AB Disclosed are dry and liquid electrophotog. developers suitable for the development of electrostatic latent images. The developers contain a colorant selected from the group consisting of (a) compds. of formula I and II (R1 = an electron-withdrawing group; R2-5 = H, alkyl, substituted alkyl, aryl, substituted aryl, arylalkyl, or substituted arylalkyl; A1, A2 = aryl, substituted aryl, arylalkyl, or substituted arylalkyl), (b) dimeric compds. containing two moieties of I, (c) dimeric compds. containing two moieties of II, (d) dimeric compds. containing one moiety of I and one moiety of II, (e) trimeric compds. containing three moieties of I, (f) trimeric compds. containing three moieties of II, (g) trimeric compds. containing two moieties of I and one moiety of II, (h) trimeric compds. containing one moiety of I and two moieties of II, (i) polymeric compds. containing at least four moieties selected from the group consisting of I, II, and mixts. thereof, and (j) mixts. thereof.
IC ICM G03G009-09
NCL 430106000
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other

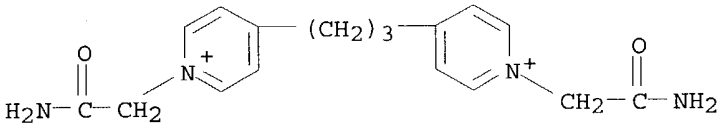
Reprographic Processes)

IT 117-61-3P 26092-49-9P 27074-03-9P, 1,4-Dimethyl-6-hydroxy-3-cyano-2-pyridone 41220-29-5P 62073-64-7P 168633-56-5P **168633-57-6P** 181820-12-2P 181820-15-5P 181820-17-7P 181820-21-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction in preparing aromatic diazo dyes for electrophotog toners)

IT **168633-57-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction in preparing aromatic diazo dyes for electrophotog toners)

RN 168633-57-6 CAPLUS

CN Pyridinium, 4,4'-(1,3-propanediyl)bis[1-(2-amino-2-oxoethyl)-, dichloride (9CI) (CA INDEX NAME)



●2 Cl⁻

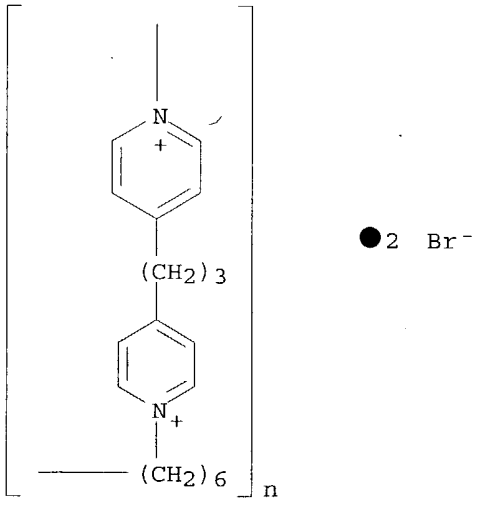
L15 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:453185 CAPLUS
DOCUMENT NUMBER: 141:24155
TITLE: Ionene oligomers and polymers
INVENTOR(S): Fitzpatrick, Richard J.; Shackett, Keith K.
PATENT ASSIGNEE(S): Genzyme Corporation, USA
SOURCE: PCT Int. Appl., 113 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004046109	A2	20040603	WO 2003-US36938	20031119
WO 2004046109	A3	20040715		

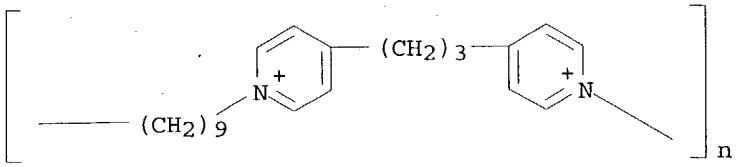
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ

RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN,

GQ, GW, ML, MR, NE, SN, TD, TG
PRIORITY APPLN. INFO.: US 2002-427513P P 20021119
AB Polymerized ionene compds. are known to be effective antimicrobial substances. The mol. weight can affect the safety and efficacy of ionene compds. In particular, low mol. weight ionene oligomers (<50 repeat units, 1-3 k-daltons) are less toxic than larger polymers with identical compns.
IC ICM C07D211-00
CC 35-5 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): **1, 63**
IT 28728-55-4P 31987-01-6P 53037-02-8P 53037-42-6P 53037-50-6P
53149-02-3P 158400-74-9P **158446-46-9P** 443303-47-7P
443303-48-8P 443303-49-9P 443303-50-2P 443303-51-3P 443303-53-5P
443303-54-6P 443303-55-7P 443303-56-8P 443303-57-9P 443303-60-4P
443303-61-5P 443303-62-6P **443303-63-7P** 443303-64-8P
443303-66-0P 443303-67-1P 698365-38-7P **698365-39-8P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oligomeric; low mol. weight ionene oligomers and polymers as antimicrobial substances for treatment of infections in patients with)
IT **158446-46-9P 443303-63-7P 698365-39-8P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(oligomeric; low mol. weight ionene oligomers and polymers as antimicrobial substances for treatment of infections in patients with)
RN 158446-46-9 CAPLUS
CN Poly(pyridinium-1,4-diyl-1,3-propanediylpyridinium-4,1-diyl-1,6-hexanediyl dibromide) (9CI) (CA INDEX NAME)

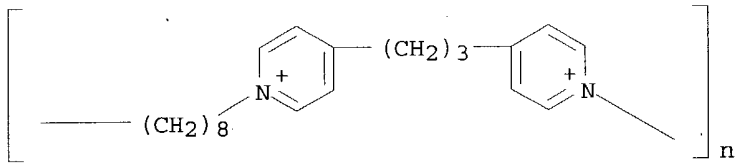


RN 443303-63-7 CAPLUS
CN Poly(pyridinium-1,4-diyl-1,3-propanediylpyridinium-4,1-diyl-1,9-nonanediyl dibromide) (9CI) (CA INDEX NAME)



●2 Br⁻

RN 698365-39-8 CAPLUS
CN Poly(pyridinium-1,4-diyl-1,3-propanediylpyridinium-4,1-diyl-1,8-octanediyl dichloride) (9CI) (CA INDEX NAME)



●2 Cl⁻

L15 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:453042 CAPLUS
DOCUMENT NUMBER: 141:7660
TITLE: Polyionenes for treating infections associated with cystic fibrosis
INVENTOR(S): Fitzpatrick, Richard J.; Shackett, Keith K.
PATENT ASSIGNEE(S): Genzyme Corporation, USA
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004045629	A1	20040603	WO 2003-US36859	20031119
WO 2004045629	C1	20040819		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU,

MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2002-427512P P 20021119

AB Ionene polymers are used for the treatment or prevention of infections (e.g., pulmonary infections) in cystic fibrosis patients is provided. The method comprises administering to a mammal an effective amount of an ionene polymer to prophylactically or therapeutically treat infections associated with cystic fibrosis. Equimolar amts. of hexamethylenebiscyanoguanidine and 4,9-dioxa-1,12-dodecanediamine were heated in the presence of HCl at 135-145° overnight to give polyionene.

IC ICM A61K031-785
ICS A61K031-787; A61K031-80; A61P011-00

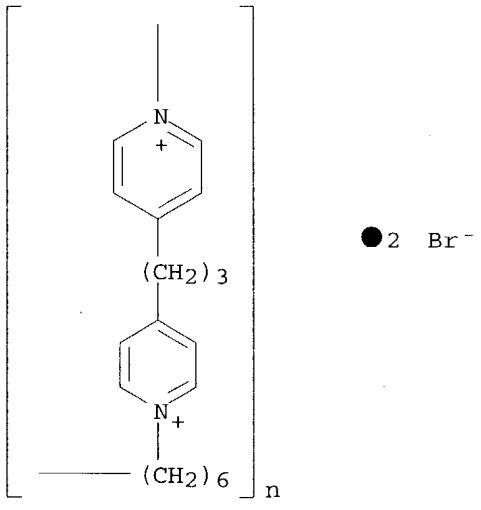
CC 35-5 (Chemistry of Synthetic High Polymers)
Section cross-reference(s): **1**, **63**

IT 28728-55-4P 31987-01-6P 53037-01-7P 53037-02-8P 53037-46-0P
53037-50-6P 158400-74-9P **158446-46-9P** 443303-47-7P
443303-48-8P 443303-49-9P 443303-50-2P 443303-51-3P 443303-52-4P
443303-53-5P 443303-54-6P 443303-55-7P 443303-56-8P 443303-57-9P
443303-58-0P 443303-59-1P 443303-60-4P 443303-61-5P 443303-62-6P
443303-63-7P 443303-64-8P 443303-65-9P 443303-66-0P
443303-67-1P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ionene polymers for use in treating infections in cystic fibrosis patients)

IT **158446-46-9P 443303-63-7P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ionene polymers for use in treating infections in cystic fibrosis patients)

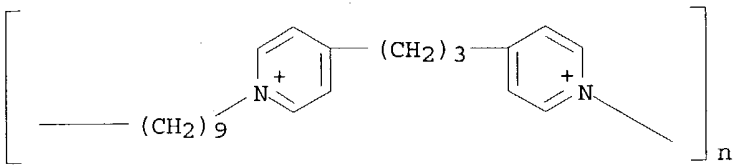
RN 158446-46-9 CAPLUS

CN Poly(pyridinium-1,4-diyl-1,3-propanediylpyridinium-4,1-diyl-1,6-hexanediyl dibromide) (9CI) (CA INDEX NAME)



RN 443303-63-7 CAPLUS

CN Poly(pyridinium-1,4-diyl-1,3-propanediylpyridinium-4,1-diyl-1,9-nonanediyl dibromide) (9CI) (CA INDEX NAME)



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REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L15 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:793438 CAPLUS
DOCUMENT NUMBER: 137:304745
TITLE: Ionene polymers and their use as antimicrobial agents
INVENTOR(S): Fitzpatrick, Richard; Klinger, Jeffrey D.; Shackett, Keith K.
PATENT ASSIGNEE(S): Geltex Pharmaceuticals, Inc., USA; Genzyme Corp.
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002080939	A2	20021017	WO 2002-US1450	20020117
WO 2002080939	C1	20030130		
WO 2002080939	A3	20031009		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003021761	A1	20030130	US 2002-51766	20020117
US 2003031644	A1	20030213	US 2002-51765	20020117
EP 1372675	A2	20040102	EP 2002-739076	20020117
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002006734	A	20040302	BR 2002-6734	20020117
JP 2004520473	T2	20040708	JP 2002-578978	20020117
PRIORITY APPLN. INFO.:			US 2001-262586P P	20010118
			WO 2002-US1450 W	20020117

AB Disclosed are ionene polymers having antimicrobial activity. "Ionene polymers" as used in this invention are cationic polymers in which a substantial proportion of the atoms providing the pos. charge are quaternized nitrogens located in the main polymeric chain or backbone of the polymer rather than in pendant groups. Also disclosed are

antimicrobial compns. comprising ionene polymers and methods for treating microbial infections in mammals comprising the step of administering to a mammal, a therapeutically effective amount of at least one antimicrobial composition of the invention. An example polymer prepared was poly(hexamethylene biguanidine-alt-4,9-dioxadodecylbiguanide) (I, (NHC(:NH)NHC(:NH)NH(CH2)6NHC(:NH)NHC(:NH)NH(CH2)3O(CH2)4O(CH2)3)x). In vitro and in vivo activities were determined for the polymers.

IC ICM A61K031-785
ICS A61K031-787; A61K031-80; A61P031-04

CC **1-5** (Pharmacology)
Section cross-reference(s): 10, 35, **63**

IT 28728-55-4P 31987-01-6P 53037-01-7P 53037-02-8P 53037-46-0P
53037-50-6P 158400-74-9P **158446-46-9P** 443303-47-7P
443303-48-8P 443303-49-9P 443303-50-2P 443303-51-3P 443303-52-4P
443303-53-5P 443303-54-6P 443303-55-7P 443303-56-8P 443303-57-9P
443303-58-0P 443303-59-1P 443303-60-4P 443303-62-6P
443303-63-7P 471280-09-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ionene polymers preparation as antimicrobial agents)

IT **158446-46-9P 443303-63-7P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ionene polymers preparation as antimicrobial agents)

RN 158446-46-9 CAPLUS
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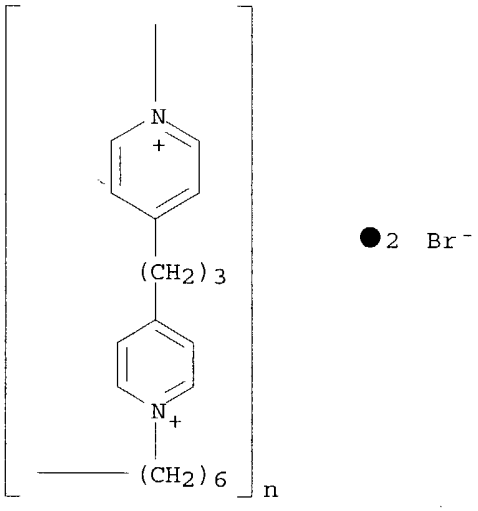
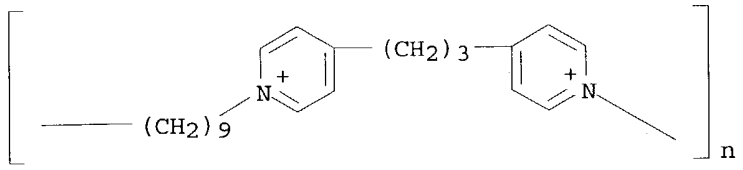


RN 443303-63-7 CAPLUS
CN Poly(pyridinium-1,4-diyl-1,3-propanediylpyridinium-4,1-diyl-1,9-nonanediyl dibromide) (9CI) (CA INDEX NAME)



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L15 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2002:555360 CAPLUS
DOCUMENT NUMBER: 137:103933
TITLE: Ionene polymers and their use in treating mucositis
INVENTOR(S): Fitzpatrick, Richard; Goddard, Philip J.; Barker, Robert H., Jr.; Shackett, Keith K.; Klinger, Jeffrey D.
PATENT ASSIGNEE(S): Geltex Pharmaceuticals, Inc., USA; Genzyme Corp.
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002056895	A2	20020725	WO 2002-US1118	20020117
WO 2002056895	A3	20040219		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2003021761	A1	20030130	US 2002-51766	20020117
US 2003031644	A1	20030213	US 2002-51765	20020117

PRIORITY APPLN. INFO.: US 2001-262586P P 20010118

AB A method of using ionene polymers for the treatment fo mucositis and oral mucositis in mammals is provided. The method comprises administering to a mammal an effective amount of an ionene polymer to prophylactically or therapeutically treat mucositis. An example polymer prepared was poly(hexamethylenebiscyanoguanidine-alt-4,9-dioxadodecane). Also an example showed that polyionenes are effective in treating mucositis in a hamster model following irradiation therapy.

IC ICM A61K031-785
ICS A61K031-787; A61K031-80; A61P001-02
CC **1-12** (Pharmacology)
Section cross-reference(s): 35
IT 28728-55-4P 31987-01-6P 53037-01-7P 53037-02-8P 53037-46-0P 53037-50-6P 158400-74-9P **158446-46-9P** 443303-47-7P 443303-48-8P 443303-49-9P 443303-50-2P 443303-51-3P 443303-52-4P

443303-53-5P 443303-54-6P 443303-55-7P 443303-56-8P 443303-57-9P
443303-58-0P 443303-59-1P 443303-60-4P 443303-61-5P 443303-62-6P
443303-63-7P 443303-64-8P 443303-65-9P 443303-66-0P
443303-67-1P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ionene polymers and their use in treating mucositis)

IT **158446-46-9P 443303-63-7P**
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(ionene polymers and their use in treating mucositis)

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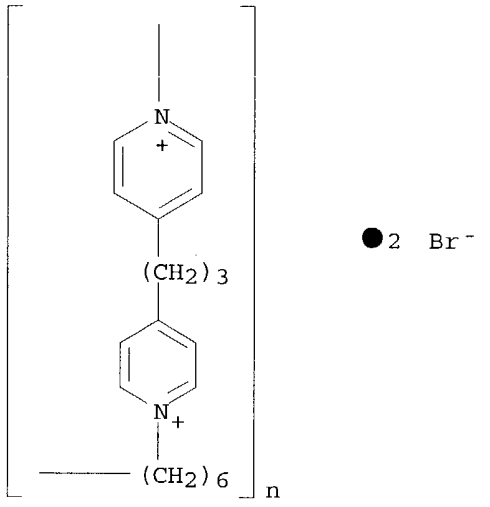

RN 443303-63-7 CAPLUS
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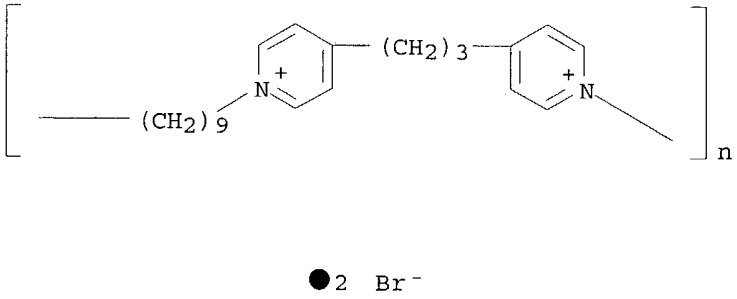

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